

ALDRED LECTURER CLAIMS ENGINEER HAS OPPORTUNITY

**"Most Marvelous Opportunities
of Ages," Scott Tells
His Audience**

SEES HARD WORK AHEAD

**Says Engineer Must Enjoy His
Work—"It is the Only
Road to Success"**

"Yes, the average engineer has one of the best and most marvelous opportunities of all ages," is the reply that Mr. F. A. Scott made to his topic query, "Has the average engineer an opportunity?" at the Aldred lecture in room 10-250 last Friday. "With the tremendous undeveloped resources of our country the only safe side to take in this question is the optimistic side," he continued.

"Above all," said the speaker, "the engineer must be willing to work and must enjoy it because he has an awful lot of it ahead of him. There is no way to really attain success except through hard work." The Seniors were advised to "do the job that is in front of them, no matter what it is, and do it NOW."

Present day competition was stressed as providing some of the greatest opportunities. In the opinion of Mr. Scott the keen competition of present day industries requires that production must be continually increased and better value given for the same money. It is the engineer's task to make this possible. "What better opportunity than this can a man desire? If men want more opportunity than is afforded in present day industry they want more opportunity than is afforded anywhere."

Citing some of the more evident present day opportunities, Mr. Scott mentioned the exceedingly inefficient method by which we obtain our power. He declared that a method must soon be found either to burn the coal in the ground or at the pit mouth, or generate power exclusively from water power. Simultaneously with this the agricultural problem will be solved for, "the problem of the farmer is the problem of power; solve this and you have cheaper food and a contented farmer." Efficient and more sanitary methods for the disposal of sewage, construction and often immediate destruction of highways, and the synthetic production of some important commodities including managense, nitrates, rubber, medicines and tin were some of the other needs mentioned which afford opportunities for the men.

"Don't grow so elated over your op-
(Continued on Page 4)

ENGINEERING NEWS ON SALE THURSDAY

**Professor Dwight Contributes
Feature Article on
Water Power**

"Water Power Possibilities of the St. Lawrence and Niagara Rivers" by Professor H. B. Dwight of the Electrical Engineering Department is the feature article of the November issue of T. E. N. which will be on sale Thursday and Friday.

Other leading articles include a story on "The World's Highest Head Reaction Turbine Plant" written by W. B. West '20, Manager of the Engineering View Company of New York City. Besides a description of the 800 foot head Oak Grove Station of the Portland Electric Power Company, this article includes a discussion of the history of the development.

Professor H. H. W. Keith '05, Associate Professor in the Naval Architecture Department, has written an article for this issue on the "Launching of the U. S. S. Lexington." A description is given of the large airplane carrier recently launched at the River together with the attendant problems of launching.

"A Survey of Physics," by Professor W. S. Franklin of the Physics Department and a story on "Enameling—An Important Branch of Ceramics," by M. M. Zoller '21 of the Eagle Picher Lead Company of Chicago complete the features of this month's issue.

GERMAN PHYSICIST TO LECTURE HERE TODAY

"The Lattice Theory of Rigid Bodies" is the subject of today's lecture, the first of a series, to be delivered in room 4-231 at 4 o'clock by Professor Max Born of the University of Göttingen, Germany. The remainder of this series of lectures will be given on every Monday until December 24 at the same hour, and on Wednesdays and Fridays, Professor Born will discuss "The Structure of the Atom."

This is the second trip the speaker has made to this country for lecture work. During the summer of 1912 he was at the University of Chicago, where he also performed experiments in the Ryerson Physical Laboratory.

DEXTER P. COOPER SPEAKS IN ROGERS

**Passamaquoddy Tidal Plan
Explained in Detail to
Large Audience**

Dexter P. Cooper, hydro-electric engineer, spoke on the Bay of Fundy tidal project at Huntington Hall, Rogers, on Friday evening. The lecture, which was conducted by the Technology branch of the A. S. C. E., dealt chiefly with the engineering principles and economic aspect of the project.

This is not the first time in the history of the country that the tides have been used for the production of electric power," said Mr. Cooper. "The Dutch used such a project in the vicinity of New York for many years."

The turbines to be used in the power house are of the propeller type and capable of developing 4500 horse power each. Only 30% of them will be under governor control. Three and one half billion kilowatt hours of current will be produced yearly, which is almost that produced in all of New England. From the figures tabulated, this project will produce the cheapest power in the entire country. By a process of dredging and damming, the waterflow will be regulated from two to three feet per second to obtain the highest efficiency.

Permits for this enterprise must be obtained from the State of Maine, the Province of New Brunswick, the Governments of United States and Canada, as well as from an international board chosen by the two countries. Navigation will be hindered to a slight degree, but this may be overcome by dredging. The tides in the lower bay will be much lower than usual. Fishing is not expected to be harmed in any way. According to Mr. Cooper, the advantages to Maine will be threefold: better labor conditions, lower taxes, and higher wages.

"The era of mass production and distribution is now at hand," continued the speaker. "New England could be made a very prominent unit in such a movement, because of its proximity to sources of raw materials, and markets, and because of the large amounts of available hydro-electric power. This is what the tidal project will tend to do—expand New England."

Chemical Society Honors Professor Norris With Banquet and Reception

Dr. James F. Norris, Professor of Organic Chemistry and President of the American Chemical Society, was honored by the Northeastern section of the society on Friday evening, when he was tendered a banquet and reception, and presented with a testimonial of appreciation. A regular meeting of the section was also held at that time.

Following the informal reception and a dinner in North Hall, Professor Norris addressed the members of the society on chemical reactivity. For a number of years attention has been centered on the reactivity of atoms of organic compounds quantitatively, and at present several members of the new organic research laboratory at the Institute are devoting their time to this subject. According to the speaker, it has long been an accepted principle that the proper understanding and intelligent use of any property of matter must be based on the measurement of the property in such a way that the results can be expressed by numbers.

T. C. A. OPENS ANNUAL DRIVE WITH SOLICITATION TONIGHT

Institute Officers Endorse Drive

President S. W. Stratton—"In view of the good work done by the T. C. A., I earnestly hope that the students of the Institute will assist in making the present drive a great success."

Dean H. P. Talbot '85—"The Technology Christian Association has a right to be proud of its service record. Many students owe their Institute education largely to its assistance. Many more are helped in less tangible ways. It heartily deserves all that it is asking from us."

Bursar H. S. Ford—"The T. C. A. during the last few years has steadily found favor among Tech men. The fact that the 'combined drive' has been limited to this activity is sufficient evidence on this point. A contribution toward the work is a donation well placed."

41 MEN NAMED IN FROSH ELECTIONS

**Freshmen Will Elect Officers
Wednesday—Polls in
Main Lobby**

Forty-one freshmen were nominated to fill eight positions in the freshman class, when nominations were closed Saturday. Election will be held Wednesday, from 8:30 to 5:30 o'clock. The polls will be in the Main Lobby.

Eleven men are running for president, seven for secretary, six for treasurer, ten for Institute Committee, and two for Executive Committee. Two men are to be elected to both the Institute and the Executive Committees.

The preferential system, which was introduced last year, will be used again. The voters place numbers behind the names of the nominees, showing the order of his preference. A number one, for instance would be placed after the balloter's first choice; a number two would be placed after his second choice, and so forth. In this system, if no man gets a majority, by first choice, the election will go to the one who has the highest preference of the majority.

FRESHMAN PHYSICAL TRAINING IS BEGUN

All freshmen who did not sign up for one of the optional sports have begun to take physical training twice a week under the supervision of H. P. McCarthy, Physical Director. This course is compulsory, its enrollment depending upon the substitution of other athletics by freshmen.

The total list of men substituting sports for physical training in 1924 was 325, while this year the total is 290. The enrollment of freshmen is approximately 505, leaving over 200 men not out for any sport.

DORMITORY BOARD TO ATTEND SMOKER

**Program for Affair Unique in
That No Speeches Will
Be Made**

Members of the Dormitory Board, consisting of Professor L. F. Hamilton '14, chairman, Dean H. P. Talbot '85 and Bursar H. S. Ford, will attend the Dormitory Smoker to be held Friday evening in the recreation hall of the Carr Fastener Company. O. B. Denison '11, secretary-treasurer of the Alumni Association has also promised to be present.

The program for the evening will be unique in that there will be practically no speeches, the entire evening being given over to music and vaudeville entertainment. Refreshments consisting of sandwiches, cake and cider will be served.

Photographs of the entertainers at the Smoker will be on exhibition in the dormitory office early this week. Entertainment will be furnished by a group well known to Boston audiences. Jessie Alcova, formerly of the "Follies" and of "George White's Scandals" will present a special act which she has contrived for the smoker audience. The "Romona Five," making a specialty of cabaret dancing, has also been engaged.

Music will be furnished throughout the evening by a four piece orchestra which makes a specialty of such affairs.

Efforts are being made by the committee to restrict attendance at the smoker to dormitory residents. Tickets will be distributed in the dormitory mail boxes on Friday morning. According to the committee in charge, it will be necessary to present this ticket for admission.

DEBATING SCHEDULE WILL START SOON

**First Debate to be With Team
From Boston College**

Technology debaters will begin their season on December 4 when they will engage the Boston College representatives in a verbal contest. Although the place is not certain, it is probable that the meeting will be held in Rogers Building on Boylston Street.

Boston College will uphold the negative of the debate, which is, "Resolved, that the United States should enter the permanent Court of International Justice under the Harding and Hughes Reservations as sponsored by President Coolidge." The main speeches will be 10 minutes each, while the rebuttals will be of 4 minutes duration.

Professor Dotten of the Economics department will preside at the debate. The judges are Mr. B. L. Young, a prominent lawyer and former Speaker of the Massachusetts House of Representatives; Professor R. H. Lord of Harvard University; and Mr. J. T. Williams, editor of one of the Boston daily papers.

CANVASS OF DORMS AND FRATERNITIES TO OPEN CAMPAIGN

**Active Drive in the Institute
Buildings to Start on
Tuesday Morning**

NAME \$2500 AS QUOTA

Opening its annual campaign at 6 o'clock tonight when the dormitories and fraternities will be solicited for subscriptions, the T. C. A. drive committee plans to reach the entire student body before the close of the drive on Thursday night. By that time it is expected that the \$2,500 quota will have been attained.

Students will be kept in constant touch with the progress of the drive by means of charts which will be placed in the main lobby tomorrow morning. These will show the percentage of men subscribing in the various dormitories and fraternities. As soon as the statistics are available the proportion of men in the different courses who are donating to the T. C. A. will also be posted.

Members of the T. C. A. connected with the drive hope to exceed the quota if possible. If the drive is oversubscribed the additional money will be used in doing further work of the same nature.

Although the \$2,500 asked for by the T. C. A. is somewhat higher than the amount raised last year, it is small compared with other institutions. At Princeton the undergraduates were recently successful in raising \$25,000 after a week's soliciting. The Yale University Budget Drive has made its goal \$27,500 this year.

The personnel of the drive has been selected and organized by the executive committee of the drive of which J. H. Wills '26 is chairman. This afternoon the Fraternity solicitors will have a short meeting when they will receive their final instructions. Later in the afternoon the section leaders, and free lances will meet to make their last preparations, while in the evening, the Dormitory solicitors will assemble before they begin their work.

CATHOLIC CLUB FALL DANCE FRIDAY NIGHT

The annual Fall dance of the Technology Catholic Club will be held on Friday evening in the Main Hall, Walker. The affair is informal and dancing will be from 8 until 12 o'clock.

Music for the dance will be furnished by "Dok" Einsebourg and his Sinfonians. "Dok" will make a personal appearance. An invitation to attend has been extended to all the Catholic Clubs of New England and tickets have been sent to the members of the club.

PROFESSOR SHERRILL ON LEAVE FOR YEAR

Professor M. S. Sherrill of the Chemistry Department has been granted a leave of absence from the Institute until next fall. He will go to Pasadena, California to write a book in conjunction with Professor A. A. Noyes who was for several years connected with the Institute and who founded the laboratory of Physical Chemistry in 1903.

CALENDAR

Monday, November 16

4:00—Meeting of the Fraternity drive solicitors at T. C. A. office.
5:00—Meeting of free lances of the T. C. A. drive in the T. C. A. office.
5:00—Section Leaders meeting, room 2-245.

Tuesday, November 17

7:30—Smoker for new college transfer students, Faculty dining room, Walker.
7:30—Mining Engineering Society smoker, West Lounge, Walker.

Thursday, November 19

4:00—Freshman Lecture, "First Aid," room 10-250.
8:00—Musical Clubs smoker, North Hall, Walker.

Friday, November 20

8:00—Catholic Club Dance, Main Hall, Walker.

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J. B. Goldberg '26

CHARITY BEGINS AT HOME

TONIGHT the Technology Christian Association inaugurates its annual drive for funds with a canvass of the Dormitories and Fraternity houses. It has set as a quota this year \$2500, which it hopes to raise by the time for the official end of the drive Thursday night.

It seems almost superfluous to urge all students to contribute, or to recite the claims which the T. C. A. has upon our generosity; for there is scarcely a man in the school to whom the Technology Christian Association has not at some time rendered service.

With its Book Exchange, which serves as a clearing house for second-hand books, drawing instruments, and slide rules; its Employment Bureau, which helps to find work for the student who must earn the money which pays for his college career; its room registry, that helps hundreds to find suitable living quarters while they are pursuing their studies; its religious and social service departments, which look after the spiritual welfare of the student; with all these services it reaches practically every student in the Institute with some sort of aid.

In order to enable the T. C. A. to continue to render such service, money is necessary; and it is only fair that part of that money should come from those who are most to be benefited. It is idle to set any definite amount that every student should pay, but each should give whatever he can afford, without hesitation.

And in considering what he can afford, the student should bear in mind that this drive for funds for the T. C. A. is to be the only charity drive to be permitted in the Institute during the school year. With so worthy an organization as this in the school, there is no question but that "charity should begin at home."

PEACE OR WAR?

THE disgraceful demonstration on Boston Common last Wednesday is an evidence of the folly of men who cannot realize that war, for itself, is eminently undesirable. A few Jingoists made Armistice Day the occasion for a warlike demonstration.

Originally, a parade was planned to celebrate the cessation of the World War and to be a demonstration in favor of future peace. Various organizations opposed to war planned to enter; and the veterans of the World War, who did so much to make possible the ending of the war, were invited to join.

Refusing to take part because they believed the parade was to be made an occasion for a plea for "peace at any price," certain of the veterans furthermore took it upon themselves to stand along the line of march and "boo" the paraders; and frequent repetitions of the epithet "pacifist" were heard. This in spite of the fact that the officials who arranged the parade had assured the veterans that no slight was intended toward the men who fought in 1917 and 1918, to whom war should be more abhorrent than to anyone else.

Although the Governor of Massachusetts and the head of the Massachusetts American Legion reviewed the parade, the Mayor of Boston refused to do so, claiming, as had certain of the Legion men, that the marchers were "unpatriotic." After the parade was disbanded, the participants gathered at Parkman bandstand to express their hope that the "war to end war" was not fought in vain, and a group of young men, some in khaki, expressed their disapproval and their inability to understand the significance of Armistice Day by marching around the bandstand singing war songs, and threatening the advocates of peace.

The purpose of Armistice Day is to celebrate the ending of the World War, and to remind us of the desirability of peace. Its purpose is not primarily to honor the veterans who fought in that war, deserving of honor as they may be. If certain of the Legion members (the demonstration did not by any means include all the veterans) feel that they have been slighted, let them agitate for a Veterans' Day in April, the appropriate time for the celebration of the glory of the soldiers of the Great War. Let Armistice Day remain a day of peace.

—THE TECH BOOK LIST—

The following books have been carefully chosen by the editors of this publication with the assistance of the publishers as being of interest and import to our readers. It is not purposed to discuss books of a scientific nature but ones of amusing and cultural value. Additional information concerning such books will be furnished upon request.

SINS OF SCIENCE: A treatise on the fundamentals of science and religion, by Scudder Klyce. Boston. Marshall Jones Company. \$3.00.

A boring and not very illuminating discussion of the path to success and happiness is *Sins of Science*, which, as its name implies, strongly opposes the explanations of truth given by scientists. Its author very frankly states, "... I have become unshakably certain that I know the fundamental truth." Which, if this reviewer's memory serves him well, is the "philosopher's stone" for which the wise men of all ages have sought.

Let us see what this "fundamental truth" is. Here are Mr. Klyce's own words: "Obviously, relationship words, as words, connect together, or unify, the Many words ('words which name parts') 'into a One—so that our three sorts of words, considered together,' (Relationship, Many, and One words) 'mean the One, without self-contradiction.' ... That is the basic solution of the riddle of the universe." In other words, the solution of the riddle of the universe is another riddle.

While concluding that some one power of goodness, which he is willing to call God, exists, he denies the divinity of Christ, for, he says, if the fact that he had no father but was "conceived by the Holy Ghost" makes Christ divine, then Adam and Eve, who were created in *toto*, with neither finite mother nor father, must have been twice as divine.

Klyce declares that the more a man studies and becomes steeped in the accumulated knowledge that is science, the less he knows about the fun-

damental truth; that the "average common-sense man 'knows more about fundamentals than a man who has devoted his life to study; and that if one does not understand his book, it is because one has become saturated with the teachings of science so that one can no longer understand common sense."

Perhaps it would be best to close with another quotation, as an instance of where this reviewer, too deeply imbued with the scientific philosophy of Technology, lacked sufficient of Mr. Klyce's "common sense" fully to comprehend his meaning: "The only sound 'relativity' is the related-Many, or relative-Many—and not the relative-relationship which relativists assert."

Dutton's will publish some time this month, James Mavor's "Niagara in Politics," a frank and relentless exposure of the Ontario Hydro-Electric Power Commission's operations in that province. It throws additional light on the subject of public ownership of utilities, a most timely one now that the question of control of hydro-electric power systems in the United States is becoming so important. The author is Professor Emeritus of Political Economy in the University of Toronto.

"The Adventures of an Illustrator," by Joseph Pennell contains portraits of John Hay and Sargent by himself in a special DeLuxe Edition being published by Little, Brown and Company. In the regular edition of the book, Pennell presents a remarkable collection of portraits of the authors for whom he has worked, and of the equally famous artists he has known.

Activities of Technology Christian Association Are Shown By Secretary

By Wallace M. Ross, Secretary

One Fall not long ago a sign was put in basement of Walker for the benefit of the frosh: "T. C. A.—End of Hall." Someone surreptitiously stole up and placed an "e" where the "a" had been. Well, ever since that time we've been trying—trying is the word, to keep the purple boys from the brimstone places.

An alumnus wrote to the secretary the other day concerning the above—"I hope that you really enjoy being at the 'End of Hell'—most of us haven't started yet. Tell us how long the average man has to work before he gets to the end of it."

The letters T. C. A. of course stand for Technology Christian Association. Some of the alumni present at the reunion may have recently received a letter from the chairman of the Advisory Board, P. R. Ziegler. These men may have thought T. C. A. meant "Take Cash Away," but the organization officials themselves like to think the initials stand for "Take Care Always." This, in the last analysis of course, means service, and "T. C. A. service" is an expression which is quite well known at the present time around the Institute. And this service is rendered to anyone at anytime without any charge, and no line is drawn regarding color, creed, or country.

The so-called T. C. A. service runs all the way from assigning an adviser to the incoming freshman in August before he enters, to furnishing him a timetable the day he graduates telling him what train he can get home. The adviser acts as a sort of big brother to the green freshman before he comes. To further make at home a handbook is sent to him by the Association. When he actually arrives he is given a blotter, 17x24, a copy of the Transcript's Stranger's Guide, and a little booklet telling of the Institute. He can buy his books second-hand from the Book Exchange, where a price of two-thirds the original is allowed to be charged by the student leaving books to be sold. This Fall \$1400 worth of books were sold for, and to the men.

As a freshman, he may need employment and the T. C. A. now has a man giving half-time to obtaining work for men. During the last twelve months approximately three hundred different men have been given employment, which employment has brought in to those men about \$43,000, of which \$33,000 has been vacation employment, and \$10,000 term employment.

Before obtaining employment, the man may desire a room if he is not fortunate enough to get into the dormitories. 400 men obtained rooms last year from 1,600 which the Room Registry looked up and ran down.

The question is asked, what service is rendered the soul of the men? The answer is that not very much has

been one along that line to date. But the statement is also to be made that an associate secretary, C. C. Shotts a graduate of the University of Alabama '22 and of the Yale Theological Seminary '25 is now here giving especial emphasis to the religious side of the work.

Another interesting phase of service has been the sending of four men each week to jail—teaching those there, mathematics. Another alumnus hearing of this peculiar service writes, "I am wondering why the four men spent an hour in jail, because when I was at Tech, if we had gotten what we deserved, we would have spent a week in jail each week." "Another thing—why do the four men who are spending a week in jail have to teach the prisoners mathematics? I always understood that prison mathematics were very simple—consisting mostly of problems along this line—'If my sentence was four years and I have served one year and a half, how much longer do I have to serve?' or 'If a hack-saw will cut at the rate of one-half inch per hour, how long will it take me to saw through a bar one and three-eighths inches in diameter?'"

Such are some of the services rendered by the "Take Care Always" organization. Others of course, include trying men up to the churches, having them present at meetings, having them in Bible study classes, conducting boy's work, making it possible for them to attend dances under suitable auspices, rendering special service to 231 men from 44 different countries in the Institute, sending out deputations teams to cities, towns, and preparatory schools, to say nothing of the numerous services as can be obtained in the office from supplying postage stamps, etc., etc. ginning of the year about each man. Suffice to say that the 18 different formation on cards taken at the divisions of work—using some 300 men—have rendered service at least once and in some cases many times to 2,000 of the 2,813 who have registered in the Institute this year.

Intercollegiates

All boarding houses, dormitories and college restaurants at Ohio Wesleyan will serve mush and milk every Thursday noon. The money saved by this novel plan will be donated to the Ohio Wesleyan Plan of development. \$800,000 is needed to finance the development.

Trustees of Wabash College have ruled that none of the students will be allowed to drive cars. Disobedience of the rule will mean expulsion. The ruling was announced at a football rally which was rapidly converted in-

to an indignation meeting. The students voted unanimously to strike if any violators of the rule should be expelled. Since the trustees refuse to give any reason for their action, the students feel that the only resource to combat this limiting of personal liberty is to strike.

Pennsylvania State University is to receive a collection of the apparatus which Joseph Priestley used in his famous experiments, the most famous of which was the discovery of oxygen. Priestley was an English clergyman, and when he came to America in 1794 he settled in Pennsylvania. The collection was made by the alumni with the aid of the American Chemical Society and is to be presented to the university as soon as it is completed. The exhibits will be housed in a fire-proof building next Priestley's home which the university has owned since 1920.

Lehigh has one of the most unusual mascots of any football team in the country. It is a mud turtle which was discovered making its way across the muddy field during signal practice. He was immediately adopted and christened "Knockem." Each week the score is carved on his shell. He is considered a very appropriate mascot for all the games this year have been on wet slippery fields.

Applicants for admission to Dartmouth, beginning with the class of 1930, must qualify without entrance conditions. In the present freshman class 525 members qualified without entrance conditions, of a group of 638 who were admitted by special certificates.

The Fraternities Club

397 Commonwealth Ave.
Boston

A Club for College Men

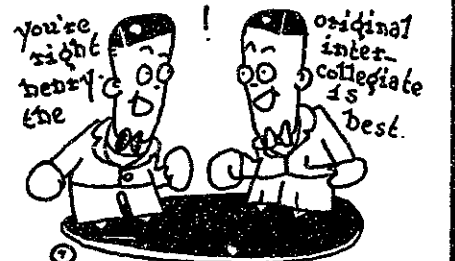
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HANDICAP MEET HELD ON SATURDAY

Engineer Harriers Are Held As Favorites In New England Meet

Shedd Only Double Winner In First Meet of Year—Many New Men Entered

Over fifty men reported on Saturday for the first handicap meet of the season on the Tech track. Considering the high wind that blew the length of the field, and the rather cold day, the times were very good. A. H. Shedd was the individual winner for the first meet, capturing two firsts in the dashes. In both events he started from scratch against a fairly classy field. Most of the winners in the events were new men with a sufficient handicap to allow them to defeat the older men.

Although fifty five men is more than reported for the first meet last year, it is not as many as was expected to come out this year. All of the men do not seem to realize that they have an equal chance to win a cup by capturing the most points in their events. The handicaps that were given Saturday were large enough to give everyone an equal chance.

Fay Captures 660 Yard Run

The first race of the afternoon was the 75 yard dash with a number of good men entered in it. A strong diagonal wind blew across the track, making it hard running. Shedd started the afternoon right by capturing this race from scratch. Heyser, with a 4 foot handicap, put up a strong fight, but was only able to come in a poor second in the short dash. Berman and Earle trailed Shedd and Heyser to the tape.

In the 660 yard run, M. H. Fay, with a 50 yard handicap was able to defeat George Leness, running from scratch. Leness however had quite a few yards on McIntyre and Tarbox, who finished in third and fourth places. The remainder of the rather good sized entry list were all fairly well bunched in the rear.

When Ivancich passed Austin on the last lap of the one and a half mile run, the only real excitement of the meet was uncovered. Both men had 150 yard handicaps, and it looked as if Austin had the event sewed up on the last lap. Ivancich however uncovered a fine sprint near the close of the race to pass Austin and capture first place. Dahl placed third, while DeFazio, one of the regular track men,

uncovered his spurt a little too late to finish better than fourth.

Few Entries in Field Events

In the 150 yard dash, Shedd captured his second first of the afternoon. Starting from scratch, he passed S. B. Smith, who had a 6 foot handicap about the seventy five yard mark and was never headed. Smith finished a close second, nosing out Tony at the tape.

There were fewer men reporting for the field events than the track events. H. C. Pease tied with Casselman in the high jump, but since the former's handicap was less, he was awarded first place. Pease cleared the bar at 5 feet 3 inches, Casselman at 5 feet 2 inches.

All of the entries in the shot put started from scratch. Wilcutt got off the best heave of the afternoon when he putted the iron ball 35 feet 4 inches. Jones got off a good heave of 35 feet 2 inches, and Martini was third with 34 feet 4 inches.

C. R. Green captured the discus throw from scratch easily when he threw the platter 116 feet. Jones placed second with 114 feet 4 inches, including a 4 foot handicap. Wilcutt annexed third place with 112 feet 10 inches.

The summary:—

75 Yard Dash—First, A. H. Shedd (scr); second, Heyser (4ft.); third, Berman (1 ft.); fourth, N. Earle (2 ft.). Time: 8 2-5 seconds.
660 Yard Run—First, M. H. Fay (50 yd.); second, G. Leness (scr); third, McIntyre (35 yd.); fourth, W. R. Tarbox (50 yd.). Time: 1 min. 25 sec.
One and One-Half Mile—First, Ivancich (150 yd.); second, C. R. Austin (150 yd.); third, Dahl (150 yd.); fourth, DeFazio (75 yd.). Time: 7 min. 34 sec.
150 Yard Dash—First, Shedd (scr); second, C. B. Smith (6 ft.); third, Tony (8 ft.); fourth, N. Earle (4 ft.). Time: 15 4-5 sec.
High Jump—First, H. C. Pease (3 in.); 5 ft. 6 in.; second, Casselman (4 in.); 5 ft. 6 in.; third, E. Allen (scr); 5 ft. 5 in.
Shot Put—First, Wilcutt (scr); 35 ft. 4 in.; second, Jones (scr) 35 ft. 2 in.; third, Martini (scr) 34 ft. 4 in.
Discus—First, C. R. Green (scr); 116 ft.; second, Jones (4 ft.); 114 ft. 4 in.; third, Wilcutt (15 ft.); 112 ft. 10 in.

WRESTLING PRACTICE HELD IN HANGAR GYM

No Coach Secured as Yet—Frosh Prospects Are Good

Although a coach has not been secured for the wrestling team, practice is now in full swing. This week a regular system of coaching for the inexperienced men will be instituted under the direction of the Varsity men. J. L. Dean '28, a transfer from the Naval Academy will also assist.

Manager James hopes to have a coach within a few days. Until one is obtained, freshmen who have signed up for wrestling will have to take Physical Training. However freshmen who intend to wrestle should come out now, as they will need practice for the meets.

The freshmen have shown an interest in the team and the prospects are good. Among the men who have been reporting regularly are: Peterson, Der Mardroussa, Moyano, Tomacelli and Geismar.

Upper classmen who were out for crew are now unable to use the boat-house because of the number of the frosh who are taking up rowing. A number of them have signed up in the heavy divisions. The manager wishes that more men would come out for the Varsity immediately, especially those who had experience last year. The first meet is with Northeastern on December 19, so no time should be wasted in reporting.

It will take a fine cross country team to place ahead of the Engineer squad in the New England's this afternoon at Franklin Park. Os Hedlund has been priming his men for this event and the I. C. A. A. A. A., and feels that they are now about in perfect condition. Frank Kanaly will send a strong squad from Maine that will give the Engineers a close battle.

SOCCER TEAM SHUTS OUT NORTHEASTERN FOR INITIAL WIN

Good Teamwork and Airtight Defense Are Combined In Victory

HIGH WIND IS OBSTACLE

Gale Prevents Accurate Pass-work and Scoring on Both Sides

Outplaying Northeastern at all stages of the game, the Technology Soccer team displayed a fine brand of soccer and shut out the Huntington Avenue school 4 to 0 Saturday afternoon on Tech Field. The game was played in a high wind which hampered accurate kicking on both sides.

The Institute men in winning this game showed their best form of the year, the Northeastern kickers being unable to solve their defense at any time. Young, playing left fullback, was the outstanding luminary for the Institute forces. His fine defensive work prevented the Northeastern forwards from scoring on many occasions. Martinez played a fine game at left forward, being instrumental in all of Technology's scoring chances and scoring once himself. Captain Kupka played the stellar role for Northeastern at the center forward position.

Freddie Moe registered the first counter which came about the middle of the first half after several unsuccessful attempts at the visitor's goal. The play had been surging back and forth with the ball in Northeastern territory most of the time. Lynn was taken out when the game was but five minutes old when his knee was hurt in a collision with a Northeastern player. There were no other forwards to put in place of Lynn so Kazazian, normally a fullback, was placed on the forward line.

The second goal was made by Hsin towards the end of the first half when, after a bit of fast dribbling in eluding the last Northeastern back, he shot the ball like lightning along the ground straight for the middle of the visitor's goal and the sphere went between the legs of the opposing goal tender.

Several substitutions were made by Northeastern at the start of the second half but with no avail as far as altering the complexion of the score was concerned. Foster replaced Moore at goal and A. N. Rae took Foster's position at right fullback. Burton was put in at inside right forward and Stewart was substituted for Brury.

Lynn went back into the game for the second half, his knee apparently all right. This was the only substitution on the Institute team. Germain scored the third goal on a short pass and this score was a just reward for the hard and aggressive playing which he had been doing all afternoon. The wind was slightly in favor of the Engineers this half and they did not have to overcome this extra opposition which they had during the first half.

Displaying wonderful teamwork the Beavers kept the ball in the visitor's territory most of the time but the fine defensive work of the Northeastern backs kept them from scoring on many occasions. The game was marked by fine defensive work on both sides. The last Engineer counter came partly as a stroke of luck but mostly as a result of their ability to get the ball close to the Northeastern uprights. On a counter-kick the ball bounced from the chest of Martinez through the goal and right by the arms of the surprised goal tender.

This is the first victory this year for the soccer team and indicates that they have been a coming team. Having broken the ice, they should have little trouble in disposing of Clark University next Saturday.

The line up:—

M. I. T.		NORTHEASTERN	
Flynn, g.	g. Moore	g. Moore	g. Moore
Marques, rfb.	rfb. Foster	rfb. Foster	rfb. Foster
Young, lfb.	lfb. Smith	lfb. Smith	lfb. Smith
Jones, rfb.	rbh. Bancroft	rbh. Bancroft	rbh. Bancroft
Arana (C), chb.	chb. Ewer	chb. Ewer	chb. Ewer
Badger, lhb.	lhb. W. Rae	lhb. W. Rae	lhb. W. Rae
Germain, or.	or. Bury	or. Bury	or. Bury
Lynn, ir.	ir. A. N. Rae	ir. A. N. Rae	ir. A. N. Rae
Moe, cf.	cf. Kupka (C)	cf. Kupka (C)	cf. Kupka (C)
Martinez, il.	il. Howard	il. Howard	il. Howard
Hsin, ol.	ol. Melcher	ol. Melcher	ol. Melcher
Substitutions: 1s. half—Kazazian for Lynn; 2nd half, Lynn for A. N. Rae; Stewart for Brury.			
Referee, Welch.			
Time, 45 min. halves.			

Both Varsity and Frosh Harriers Will Encounter Strong Opposition Today

Today the Tech cross country team reach the first of their two yearly objectives when they compete with 16 other colleges in the New England Intercollegiate games at Franklin Park. Although the Varsity began their season with two defeats, their reputation has grown so since their overwhelming victory against Brown, that they are now rated as one of the four favorites to win. The others are New Hampshire State, University of Maine, and Holy Cross.

Technology will be represented this year for the first time in its history by a freshman team in these games. At the annual conference of the committee in charge of these activities, it was decided to have a frosh championship as well as a Varsity. They did not decide however until two weeks ago to run ten men instead of the usual seven. Oscar Hedlund had cut his squad down to eight men just in time to learn that he must use ten. All the meets so far this year have been run under the "7 enter-5 score" ruling, so it is easily seen how much the New England Committee has crossed up the dope.

Holy Cross Strength Unknown

First place in the Varsity race will be pretty much of a tossup with Peaslee and Littlefield, both of New Hampshire State, being prime favorites. These two have been coping first and second places in all their meets quite consistently. They will be given stiff opposition however by Marvin Rick who is just rounding into top form and Bill Rooney the Tech captain.

Holy Cross will enter a team of dark horses as they have not entered many meets in which a comparison could be made to other colleges. White of Boston University is one of the best little runners in the state and should be well up among the leaders. Lack of material on the Terrier team however practically puts that team out of the running. This was shown very clearly last Saturday when Massachusetts Agricultural College trounced them in spite of the fact that White led the pack by a big margin.

Frosh Team Is Strong

Harvard is one of the few New England colleges not entering in the meet. The Crimson has a powerful team this year, running Tibbetts, Red Hagarty, Luttman, and Soapy Walters. Technology has a score to settle with the Cambridge team, which it will not have a chance to repay until the National Intercollegiate at Van Cortland Park next Monday.

The frosh will enter a very formidable team mainly because of the good work of their three best men, Capt. McClintock, Payson, and Worthen. If he is in his usual form, MacClintock should draw away from the pack at an early stage. The Reading boy is one of the best prospects that has come to the Institute in recent years. In all the races to date, Payson has trailed his leader very closely. Burgess, Jack Hallahan, and Walters have also done very good work.

It is difficult to say which team will press the Institute midget harriers as they have already defeated the supposedly powerful New Hampshire yearlings. Holy Cross or University of Maine may spring a surprise though. The one way that the Tech frosh are handicapped is in the way of running ten men instead of seven.

The starters on the Varsity will be: Capt. Rooney, Marvin Rick, Akerley, Ed Chute, Pete Kirwin, Don Hooper, Smith. The frosh will run eight men: Capt. McClintock, Payson, Worthen, Jack Hallahan, Burgess, Walters, S. Horwitz, and Jack Sullivan.

Swimming seems to be drawing more men than ever this year. Fifty men are reporting three times a week, which is quite a few more than last year. The addition of Brown, a member of the Institute instructing staff, as coach should improve the Engineer's chances. Coach Dean had his hands full last year, trying to give a lithe man sufficient attention.

When Shedd captured two events in the first handicap meet on Saturday, another likely prospect was uncovered for the coming track season. Shedd is a transfer from New Hampshire, so was not able to compete last year. He worked out with Os Hedlund all last year, and as Os was not giving out much information on future prospects, little was heard of him, except by the track men.

HOCKEY TEAM WILL START WORK TODAY

Varsity and Freshmen to Use Arena for Practice

Twenty-two hockey candidates, responding to the initial call, were promised a fine season by coach Bill Steward, Captain Johnny Deignan and Manager Carroll, at the first meeting of the puck chasing aspirants. It was announced that the Arena would be the practicing rink for both the Varsity and Freshmen teams this season. Coach Steward stated that practice would begin today. The reason for such early practice is that the team has a heavy schudle this season and plays B. U. in about three weeks. The freshmen will not be requested to report for the first couple of weeks as they have a schedule that is not so extensive.

Manager Carroll has been dicker with all of the leading first class college teams in the east and has arranged a fine schedule. Included in the schedule are Dartmouth, Cornell, Syracuse, Bates, Bowdoin and the Massachusetts Aggies.

Captain Johnny Deignan is confident that this year's team will prove to be one of the strongest in the east as all last year's squad is practically intact, Bill Morton being the only missing one of last year's sextette.

INTERCOLLEGIATE BALL

Grand Ballroom, Copley Plaza Hotel, Evening before the

Harvard-Yale Football Game

Friday Evening, Nov. 20

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Tuesday, Thursday and Saturday evenings.

SALEM will interest you. The Hawthorne will please you, and you will have one of the best dinners you have ever enjoyed.

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STUDENTS INSPECT
AMESBURY FACTORY

See Processes in Manufacture
Of Automobile Bodies
For Closed Cars

On Friday, graduate students taking the course in Manufacturing Processes visited the Biddle and Smart factories at Amesbury, Mass. This company, employing about 3500, is engaged wholly in the production of closed car bodies for Hudson automobiles.

The trip was made by automobile, the party stopping at Haverhill for luncheon, and for a short visit to the birthplace of John Greenleaf Whittier. Upon arriving at the plant, the men were received by the Vice President and Work Manager.

One of the factory equipment engineers conducted the party through the various departments, including the sheet metal, wood working and assembling divisions. Under the guidance of the superintendent of production they were also shown the different painting and varnishing, covering, and interior finishing operations. What was considered of particular interest was the operation of the Linderman machine, through which boards were fed, automatically planed, grooved and pressed together into one wide board. The novel methods of spraying the paint, flowing the varnish over the bodies by the use of airguns, and baking of the enamel also attracted considerable attention of the party.

The automobile bodies, after being manufactured at the Massachusetts plant are shipped directly to Detroit, where they are mounted on the chassis.

F. A. SCOTT SAYS
OPPORTUNITY GREAT

(Continued from Page 1)

portunities that you neglect the day's work and, on the other hand, don't fail to look ahead." In closing he stated that the Senior Class on graduating was being sentenced—but being sentenced to life instead of to death. "Do today's work always but don't neglect weightier matters," was the speaker's final advice. "The average engineer has a wonderful opportunity, but he must work."

There are thirty-two Rhodes Scholarships to be filled this year on December 12. These men will enter Oxford University in October, 1926, and will study abroad for three years. The scholarship stipend has recently been increased to about \$2000 per year. There are no exams required. All students attending colleges in this state are eligible. Applicants must be over eighteen and under twenty-four years of age, and must have passed their Sophomore year.

The University of New Hampshire has inaugurated a "Dad's Day" to which all student's dads are invited.

Dormitory Men Want
Better Food in Walker

A petition for better food in Walker Memorial has been posted in all of the Dormitories. It reads as follows:
"We, the undersigned residents of the M. I. T. Dormitories, respectfully request Mr. B. Bridges, as manager of the Walker Memorial Dining Service, to improve the quality and variety of the food now being served in the cafeteria."
To date, a large number of the men residing in the dormitories have affixed their signatures to the petition. No definite information is available as to any further action contemplated by the sponsors of the petition.

Freshmen Nominated For Election Wednesday

President	Vice President
H. S. Barrington H. Hamilton, Jr.	R. Boyer C. W. Denny
R. G. Cowan N. L. Harms	J. S. Bennett W. H. Dolben
A. L. Eigenbrot G. T. Logan	Paul H. Gill
W. H. Gale N. L. McClintock	
R. I. Glass T. W. McCue	
W. J. Walsh	
Secretary	Institute Committee
L. R. Aldrich L. A. Jones	C. B. Allen J. B. Osborn
Harold Baker W. E. Lowery	D. R. Funk J. H. Powell, Jr.
J. L. Dodson Cutris McCune	C. J. Hurd E. A. Stein
A. C. Pforzheimer	H. Kimball H. N. Wede
	L. R. Moses William Young
Executive Committee	Treasurer
A. R. Congdon F. A. Celler	C. W. Domville O. S. Payson
	L. E. Keene C. B. Smith
	G. Palmer A. P. Weeks

LOCKE WILL SPEAK
TO MINING SOCIETY

Professor Charles E. Locke of the department of Mining, Metallurgy, and Geology, will be the speaker at the next meeting of the Mining Society, which is to be held tomorrow at 7:30 o'clock in the West Lounge, Walker.

The subject of Professor Locke's address will be "Present Revolution in Ore Dressing." At the last meeting of the society D. M. Gordon '26 and E. F. Wilson '26, of course III, were elected to the executive committee.

According to a new policy of the society there will be two meetings each month, one to be addressed by an outside speaker and one by a professor of the Institute. Formerly but one meeting has been held per month.

E. E. SOCIETY HEARS
ADDRESS ON TESTING

Mr. Everett S. Lee was the speaker at the meeting of the Electrical Engineering Society held last Friday evening in North Hall. Mr. Lee is connected with the General Electric Company in the General Engineering Laboratory.

The speaker mentioned some of the problems which present themselves in connection with tests in marine apparatus in ships and high voltage cables in municipal distribution systems. He also described the methods used in obtaining the temperature of the bottom of geysers. Since the steam emitted from such sources has several degrees of superheat at the surface, it has been suggested that geyser formations might be used as a source of steam to run turbines to generate electrical power.

Notices and Announcements

OFFICIAL

FRESHMAN WRESTLING

Commencing today, all freshmen who have signed up for Wrestling will report to the Hangar Gym instead of taking regular gymnasium classes. Report either from 4 to 5 or from 5 to 6 in the afternoon.

UNDERGRADUATE

T. C. A. EMPLOYMENT BUREAU

Men applying for work must be sure that we have a true and complete schedule of classrooms on their application cards, otherwise no consideration will be given them.

MUSICAL CLUBS

The Prize Poster Competition conducted by the Musical Clubs ends today. All competing posters must be in before 5 o'clock.

COAT HANGERS

An additional supply of coat hangers has been received by the T. C. A. Students desiring these can obtain same (one to a man) at the T. C. A. office as long as the supply lasts.

CREW AWARDS

Shingles awarded to members of the Technology crews last spring may be obtained at the boathouse any afternoon.

MECHANICAL ENGINEERING SOCIETY

Nominations for chairman and sophomore assistant of the M. E. Society are open. All nominations should be on the standard form and should be handed in at the C. P. S. office on, or before, November 18.

MINING ENGINEERING SOCIETY

Professor C. E. Locke will speak on "The Revolution in Ore Dressing" at a meeting of the Society to be held in the West Lounge of Walker Memorial at 8 tomorrow.

HOCKEY MANAGER

Freshmen desiring to try out for assistant manager of Hockey team see Manager Carroll in M.I.T.A.A. office any night this week at 5 o'clock.

CATHOLIC CLUB

The Annual Informal Fall Dance of the Catholic Club will be held on Friday November 20, in the Main Hall, Walker. "Dok" Eisenbourg and his Sinfonians will furnish the music. The tickets are \$2.00 a couple and may be secured from officers of the club and will be on sale in the Main Lobby at noon a few days before the dance.

WRESTLING MANAGERSHIP

Two Freshmen are needed in the managerial competition. Report any afternoon after four-thirty in the Hangar Gym or in the M. I. T. A. A. office.

T. C. A. HANDBOOKS

A limited number of this year's paper covered handbooks are available at the T. C. A. office for those who have not yet received them.

HOCKEY

Hockey practice starts today at the Arena. Practice will be from 6 to 7 in the evening under the supervision of Coach Stewart.

SECTION LEADERS

There will be a meeting of all freshman section leaders at 5:00 o'clock today in room 2-245.

Honors Received
By Institute Men
At French School

Report That American Students
Fired Palace is
Declared Untrue

In July comment was made in many newspapers that a fire in a wing of the Fontainebleau Palace in France was started by American students. It was stated that these same students carried off many articles of artistic value during the commotion created by the fire. R. C. Dean '26, Architecture student, has just returned from Fontainebleau and refutes the statement of these papers.

"The fire broke out in the apartments of the Head Architect of the Palace, who lived in a wing across the great court from the buildings in which the American students resided. No suspicion was raised by the French news or students against the American students. In fact the students aided the authorities in recovering valuable statuary, paintings and trinkets from the flames. The French were greatly handicapped by the time which elapsed before the firemen arrived, for the date of the fire was July fourteenth, a national holiday which the local fire fighters were celebrating with a picnic."

The College of Fine Arts at Fontainebleau was established by a group of American artists, for advanced American students, at the close of the World War. Since the students who come to Fontainebleau are supposed to be advanced scholars, they have no requirements to follow but decide what their programs shall be. The school authorities give suggestions but for the most part the student is left to develop freedom of thought.

In the final problem in design, the two Technology men, Dean and D. S. Nelson '28 were given first mention. They were practically the only undergraduates attending the school.

The male students are housed in the village and the women have their living quarters in the Palace buildings. All students dine in the Palace mess hall. The quality of the meals served is said to be none too good, but the student finds that imbibing an aperitif before meals helps make the food palatable.

Fontainebleau is situated about thirty miles from Paris, and it costs the student forty cents to commute, third class. Trips are given by the school to all parts of France. Transportation is provided by a fleet of busses. All types of French delicacies are tasted on these trips from the Fried Snake of Tours to the sparkling champagne of Chateaudon. The summer session lasts from June 25 to September 25. Diplomas are given at the close of the term.

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